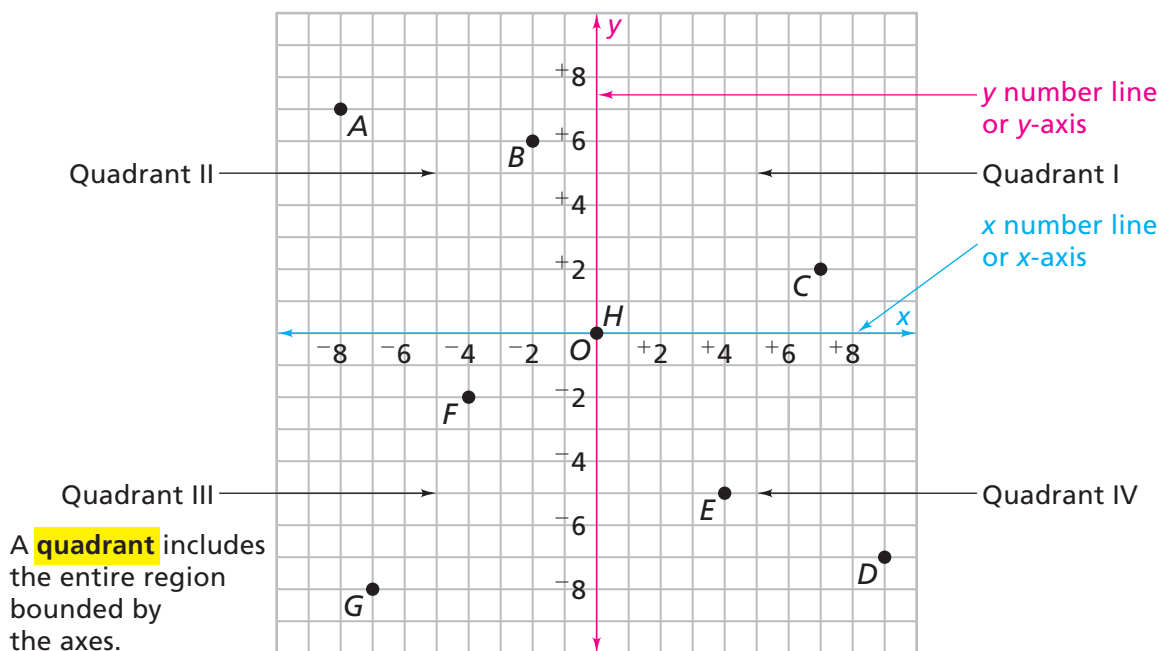


Coordinate Plane



Problem 2.5 Coordinate Graphing

- A.** Write the coordinates for each point labeled with a letter.
- B.** What is the sign of the x -value and the y -value for any point in Quadrant I? Quadrant II? Quadrant III? Quadrant IV?
- C.** The point “opposite” $(-5, +8)$ has coordinates $(+5, -8)$. Notice that the sign of each coordinate in the pair changes. Write the coordinates for the points “opposite” the labeled points. On a grid like the one shown, graph and label each “opposite” point with a letter followed by a tick mark. Point A' is “opposite” point A .
- D.** Draw line segments connecting each pair of related points (A and A' , B and B' , etc.). What do you notice about the line segments?
- E.** Plot the points in each part on a grid. Connect the points to form a triangle. Draw each triangle in a different color, but on the same grid.
 1. $(+1, -1)$ $(+2, +3)$ $(-4, -2)$
 2. $(-1, -1)$ $(-2, +3)$ $(+4, -2)$
 3. $(-1, +1)$ $(-2, -3)$ $(+4, +2)$
 4. $(+1, +1)$ $(2, -3)$ $(-4, +2)$
- 5.** How is triangle 1 related to triangle 2? How is triangle 1 related to triangle 3? To triangle 4?

ACE Homework starts on page 32.